

**CLAIMS**

What is claimed is:

- 1 1. The femoral component of a knee prosthetic including a trochlean part  
 2 and at least one, but preferably two condyles, wherein  
 3 a trochlean trajectory is defined within the trochlean portion in the  
 4 external surface of the component;  
 5 a set of internal flat sides are implemented to make contact with  
 6 corresponding re-cut sides of the extremity of the femur and define an  
 7 internal open cage within the internal surface of said component and  
 8 further define edges between themselves;  
 9 said condyles define a reference line when horizontally positioned,  
 10 which corresponds to a line of contact with said horizontal perspective;  
 11 the perpendicular projection of said trochlean trajectory is  
 12 perpendicular to said reference line in a medial lateral perspective and the  
 13 edges have a tilt angle with a value different from zero relative to said  
 14 reference line when orthogonally projected within a medial lateral  
 15 perspective.
- 1 2. The component according to claim 1, wherein said internal open cage  
 2 includes five flat sides.
- 1 3. The component according to claim 1, wherein the external shape of said  
 2 condyles is spherical.
- 1 4. The component according to claim 1, wherein said tilt angle corresponds  
 2 to the angle with which the femur must be turned in the case of the  
 3 femur's external rotation method such that said method is no longer  
 4 necessary.
- 1 5. The component according to claim 1, wherein said tilt angle has an  
 2 absolute value between one and ten degrees, preferably between two  
 3 and five degrees, and notably is equal to three degrees.

- 1 6. A couple of femoral components according to claim 1, wherein the  
2 respective slant angles of both components have opposite trigonometric  
3 sides.
- 1 7. A couple of femoral components according to claim 6, wherein said  
2 respective tilt angles of both components have the same absolute value.
- 1 8. A Knee prosthetic including a tibia plate and femoral component  
2 according to claim 1.
- 1 9. A Knee prosthetic including a tibia plate and femoral component  
2 according to claim 2.
- 1 10. A Knee prosthetic including a tibia plate and femoral component  
2 according to claim 3.
- 1 11. A Knee prosthetic including a tibia plate and femoral component  
2 according to claim 4.
- 1 12. A Knee prosthetic including a tibia plate and femoral component  
2 according to claim 5.